

PROGRESS REPORT

OF

FOREST ADMINISTRATION

IN THE

MARWAR STATE

FOR

1898-99

Introduction.

1. Siwana Forests, 40 square miles in area, were taken over and demarcated.
2. The formation of Fuel and Fodder Reserves in Khalsa villages was steadily carried on and 1310 acres in Sojat and Pali Parganas were taken up.
3. *Lac Industry*—Remembering the similarity of climatic conditions it was decided that larvæ of lac-insect (*coccus lacca*) be obtained from Sindh and planted on to suitable trees in Marwar. The year proved too dry and the experiment could not be undertaken. It will be instituted as soon as more favourable conditions offer themselves.
4. Arrangements are in progress for conserving Jalore and Jaswant-pura forests and they will be demarcated as soon as the State stands clear-handed of the present famine.

CHAPTER I.

Areas and Boundaries.

5. The area of Khalsa forests had an increase of 6 and that of Jagir 34 square miles by the conservation of Siwana forests. Thus the total area in charge of the Forest Department stood as follows, at the close of the year:—

| | | | |
|--------------------------|-----|-----|---------------------|
| Khalsa forests | ... | ... | 265·11 square miles |
| Fuel and fodder Reserves | ... | ... | 7·70 |
| Jagir forests | ... | ... | 70·37 |
| Total | | | 343·18 |

6. The replacement of *kacha* boundary pillars by masonry ones was continued. 114 pillars more in Khalsa and 20 in Jagir forests were put in at a cost of Rs. 174/- and Rs. 38/- respectively. The work could not be pushed on quite briskly for want of water near the boundary.

7. All the *kacha* pillars were white-washed and kept in good order.

CHAPTER II.

Surveying, Working Plans, and Plan of operations.

8. As referred to in para 7 of the last year's report, Boglan, Ganga-ro-gudho and Karmal forests were further surveyed and plotted, along with Lampi and Kot from last year's field work, on to paper by Forest Ranger Rakeshwar. Ranger Chatur Bhuj prepared maps of Somesar, Ganthi and Vagol, the field work having been completed last year. The field work does not compare favorably with the turn-out of the preceding two years. The plotting was in progress when the year closed.

9. In Raipur Forest Ranger Jagan Nath had a respectable item of work to show. He further surveyed and mapped out 4279 acres in Malani, Lawachan and Kalab-khurd forests. Girri and Pachanpura will be next taken in hand and the survey in these Jagir forests will be complete by the end of next year.

10. The experimental Working Plan of Desuri forest referred to in para 7 of last year's report was put in force. It could not be taken in hand till late in the year and 13 acres of Dhaw (*A. pendula*) working circle were only coppiced to end of March 1899. Forty standards of Dhau per acre were left in addition to the Nim (*Melia indica*) trees that were allowed and in Marwar must always be allowed to stand unmolested.

11. A Plan of operations was as usual prepared and acted up to. The deviations were too few to claim mention.

CHAPTER III.

General protection Breaches of the Law.

12. The criminal tribes, with the exception of Minas of Sadhri, Jhumpa, Sewari, Bijapur and Sena, behaved well. The latter (Sena, Sewari &c.) continued obstinate and any thing short of a very strong disposition on part of the local Magistrates would only induce them further to disrespect the Forest Laws.

13. Rawats from Kachhabali and Pithan-ka-gudha on the British side gave trouble. They are very favorably situate, with a handy market (Deogurh) before them, just on the border and they were not idle to make the best of their position to pilfer and profit. They were caught red-handed and chalanced to Hakumat for trial but unreasonable leniency shown to them there only rendered them bolder.

14. The Grassias of Bhimana and Thandiberi showed some disposition to reconcile and took out permits for the timber cut which they never did before.

15. The Honorary Court of Raipur tried 4 cases involving 13 persons. Convictions were obtained in 3 and one remained pending.

16. 23 cases involving 45 persons were chalaned to Hakumats and 9 pending from the last year brought the total to 32. Of this 27 cases were disposed of and the rest remained pending.

17. 538 cases were compounded departmentally against 263 last year. Of the increase, rather astounding, the new range of Siwana accounts for 76 and a dry famine year for the remainder.

18. The following table compares the results of the two years.

| Range. | CASES COMPOUNDED. | | | Average per case. | | | Average per person. | | | Remarks. |
|-----------------|-------------------|--------------------|-----------|-------------------|-----|-----|---------------------|-----|-----|----------|
| | Number of cases. | Number of persons. | Amount. | | | | | | | |
| Sewari ... | 227 | 661 | 425 11 0 | 1 | 14 | 0 | 0 | 10 | 3 | |
| Desuri ... | 28 | 81 | 80 0 0 | 3 | 1 | 2 | 1 | 1 | 0 | |
| Sojat ... | 109 | 144 | 145 7 0 | 1 | 5 | 4 | 1 | 0 | 2 | |
| Siwana ... | 76 | 120 | 257 6 0 | 3 | 6 | 2 | 2 | 2 | 4 | |
| Total ... | 440 | 1,006 | 914 9 3 | 2 | 1 | 3 | 0 | 14 | 7 | |
| Raipur ... | 98 | 126 | 132 8 3 | 1 | 5 | 8 | 1 | 6 | 10 | |
| Ghanerao ... | ... | ... | ... .. | ... | ... | ... | ... | ... | ... |  |
| Grand total ... | 538 | 1,132 | 1,047 1 6 | 1 | 15 | 2 | 0 | 14 | 9 | |
| 1897-98 | 263 | 401 | 508 6 9 | 1 | 14 | 11 | 1 | 4 | 3 | |

Grass and grazing.

19. As before the forests remained closed to camels, sheep and goats through-out the year and open to horned cattle from 1st April to end of July and again from 16th October to end of the year.

20. The revenue work of the Grassia villages remained with the Forest Department, (para 17 of last year's report), and the utility of the step is making itself felt.

21. There was very little grass outside the forests and the state cavalry (about 1,500 horse and pony) had their supply of grass from the forest during 6 months amounting approximately to 60,000 *maunds*.

22. As in the last year grass cutting without payment was allowed to cultivators from 15th October to 15th December 1898 and to non-cultivators from 1st November to 15th December 1898. After this period market rates were made to apply. It is satisfactory to note that the limitation of time is gaining favor with the people concerned.

23. The following statement shows the number of cattle grazed in the forests:—

| Range. | CATTLE. | | | | Remarks. |
|---------------|----------------|------------|-------|--------|----------|
| | Right holders. | Outsiders. | Free | Total. | |
| Sewari ... | 11,795 | 410 | ..... | 12,205 | |
| Desuri ... | 4,596 | 1,384 | ..... | 5,980 | |
| Sojat ... | 6,731 | 715 | ..... | 7,446 | |
| Siwana ... | 2,069 | 379 | ..... | 2,448 | |
| Parbatsar ... | 688 | ..... | ..... | 688 | |
| Raipur ... | 3,887 | 622 | ..... | 4,509 | |
| Ghanerao ... | 979 | 3 | 171 | 1,153 | |
| Total ... | 30,745 | 3,513 | 171 | 34,429 | |
| 1897-98 ... | 19,555 | 1,104 | ..... | 20,659 | |

24. 8,858 cattle were impounded for illicit grazing against 3,769 during 1897-98, as detailed in the table below:—

| Range. | DESCRIPTION OF CATTLE. | | | | Total. | Remarks. |
|--------------|------------------------|------------|------------------|---------|--------|----------|
| | Cows. | Buffaloes. | Sheep and goats. | Others. | | |
| Sewari ... | 110 | 10 | 852 | 8 | 980 | |
| Desuri ... | 463 | 249 | 1,256 | 3 | 1,971 | |
| Sojat ... | 660 | 71 | 1,326 | 65 | 2,122 | |
| Siwana ... | 194 | 36 | 2,841 | 87 | 3,158 | |
| Raipur ... | 272 | 40 | 149 | 2 | 463 | |
| Ghanerao ... | 97 | 1 | 56 | 10 | 164 | |
| Total ... | 1,796 | 407 | 6,480 | 175 | 8,858 | |
| 1897-98 ... | 1,000 | 194 | 2,454 | 121 | 3,769 | |

Forest fires.

25. Cutting of trees and shrubs out of the main fire line between Marwar and Meywar was continued and Rs-123/ spent over the work.

26. As stated before the Sirohi Forest officer and the Mirpur Jagirdar in Meywar did not again co-operate and thus a length of 11 miles only could be gone over. Their forests adjoin the Marwar forests and prove no small source of danger whenever on fire.

27. The main and intermediate fire lines were as usual cut and burnt.

28. The rains held off abnormally and in consequence very little grass came up. This very little was, the fodder being so scarce, in its turn soon taken away to the last blade by the rightholders and purchasers. The country had then the fallen leaves in the forests, locally called Khaka, to fall upon. Before the fire season set in the forests were swept clean of every inflammable material, grass and leaves, and the forests remained, through this natural state of affairs, entirely safe. Only 4 acres as against 2579 last year, were burnt in Godhwar Range. The fire was mere accidental and the offender was allowed to compensate for it.

Natural Reproduction.

29. The year under report proved extremely unfavorable for natural reproduction, owing to the absence of rains. Not only there was no natural regeneration but seedlings of the previous years that were fast establishing themselves died down for want of moisture.

As stated in para 10 coppice work in Desuri forest was stated as the work did not much progress to close of the year the result will be given later on.

30. The following table will show the results of the areas coppiced previously.

Godhwar Range.

| | | L. | G. |
|--------|----------------|-------|------|
| Sadhri | { Kantia, Dhao | 6' | 1½" |
| | { Khair | 9' | 4" |
| | { Kumatia | 6' | 1" |
| Behra | { Dhao | 12·4' | 3·9" |
| | { Khair | 11·5' | 3·3" |
| | { Seris | 11·7' | 3" |
| | { Gol | 12 | 4·5" |

Sojat Range

| | | |
|---------------------------|-----|-----|
| Gudha Dhamata Kantia Dhao | 15' | 10" |
| Khair | 16' | 7" |
| Gol | 20' | 12" |

31. In Raipur forest 70 acres in Kalap Kalan 44.5 in Majhola and 50 in Lawachan were decided to be coppiced by contract. Of this 70 acres in Kalap Kalan could only be coppiced and 150 camel loads of fuel were sold at 13/ per camel. But the demand in fuel soon fell off and the rest of outturn had to be made into coal and sold at 1/6 per maund. Rs-606/ were realized from as much area last year against Rs-319/ this year and in future fuel only will be sold and coal making disallowed.

32. The coppice shoots measure as follows :—

| Kanju forest coppiced in 1894-95. | | | Kalap Kalan forest coppiced in 1895-96. | | |
|--------------------------------------|------|-----|--|------|-----|
| | L. | g. | | L. | g. |
| Kantia dhao | 5½' | 1½" | Kantia dhao | 4½' | 1½" |
| Kalia Siris | 7½' | 2½" | Kalia Siris | 5½' | 2" |
| Gol | 7' | 3" | Gol | 8½' | 2½" |
| Khair | 5½' | 2½" | Khair | 5' | 2" |
| Nim | 7½' | 2" | Nim | 5' | 2" |
| 1895-96. | | | 1896-97. | | |
| Dhau | 3½' | 1" | Dhau | 3' | 0 |
| Kalia Siris | 5' | 2" | Kalia Siris | 3½' | 0 |
| Gol | 4½' | 2½" | Gol | 6½' | 0 |
| Khair | 4' | 1½" | Khair | 4½' | 0 |
| Nim | 5' | 2" | Nim | 3' | 0 |
| 1896-97. | | | 1897-98. | | |
| Dhau | 2½' | 0 | Dhau | 2'3" | 0 |
| Khlia Siris | 4' | 0 | Khlia Siris | 2' | 0 |
| Gol | 4' | 0 | Gol | 5' | 0 |
| Khair | 3' | 0 | Khair | 2'9" | 0 |
| Nim | 3½' | 0 | Nim | 3'6" | 0 |
| 1897-98. | | | | | |
| Dhau | 3' | 0 | | | |
| Kalia Siris | 4' | 0 | | | |
| Gol | 5'6" | 0 | | | |
| Khair | 3'3" | 0 | | | |
| Nim | 4'3" | 0 | | | |

Artificial Reproduction.

Godhwar Range.

33. The well-holders showed no propensity to take mango plants and the nursery at Nagar was in September given up. Of the plants then in nursery 612 were put out along certain fields where they could occasionally be watered.

Of this 197 survived to end of the year only to fall prey to the present drought. Teak, babul and other seeds were sown into nurseries at Sewari and in forests as well only to be lost to the ground.

34. 920 bamboo rhizomes in Behra and 1000 in Sewari forests were planted. They did well for a while but soon died.

Desuri Range.

35. Babul and Sisso seeds were sown in pits in Somesar and Kot forests. They germinated well but died soon for want of moisture.

Sojat Range.

36. 10 acres of blank in Badagudha and as many in Deodungri forests were sown with babul seed. The germination was good but their death for want of moisture was as certain.

Raipur Range.

37. 5 acres in Kanuja and Girri were sown with Dhak, babul &c. The seed did not germinate at all.

Ghanerao.

38. The old plantation and nursery at Kaka-ji-ki-baori were kept up. The plants Mohwa, Mango and Jaman &c are artificially watered from a well and were in good state. No new plants were put out.

Roads and Buildings.

ROADS.

39. *Godhwar Range.*—A new bridle path $5\frac{1}{4}$ miles long was laid out in the Bijapur forest at a cost of Rs. 188/0/6.

40. The roads and paths in Nana and Behra forests were repaired at a cost of Rs. 8/0 and Rs. 4/5/0 respectively.

41. *Desuri Range.*—No new roads or paths were laid out. The old roads were repaired and kept in good order.

42. *Sojat Range.*—A new cart road from Gudha Dhamatan to Kajal-was, started last year, was completed at a cost of Rs. 119/14/6. It is 129 chains long.

43. The cart track from Saran to Bayar was repaired at a cost of Rs. 13/15/0.

44. The construction of the Rughna-ghati bridle path from Khorla to Khejri-ka-bala-ki-gawar was taken in hand. 120 chains of it were gone over at an expenditure of Rs. 42/7.

45. *Raipur Range*.—Two small foot paths $1\frac{1}{2}$ mile long were laid out anew in Kalap Kalan forests as also repairs were done to the old ones. The cost was Rs. 23/0.

46. The bridle path in Majhola forest that remained unfinished last year was taken in hand and $\frac{1}{4}$ mile of it prepared at a cost of Rs. 98/0 inclusive of cost of repairs to other paths.

Ghanerao.

47. The old cart track in the Nal was repaired at a cost of Rs. 1/8.

Buildings.

48. *Godhwar Range*.—A new forest *chauki* was erected at Bhimana and Rs. 10/13/9 spent over it.

49. The Bijapur forest *chauki* was extended by the addition of a room at an expense of Rs. 25/15/0.

50. At Nana a forest *chauki* was erected at an expense of Rs. 96/13/9.

51. Behra, Sewari and Sadhri *chaukis* were repaired and Rs. 20/6/6 spent on the work.

52. *Desuri Range*.—One forest guard's hut was built at Ganthi and another at Bansore at a cost of Rs. 10/0 and Rs. 11/10/ respectively.

53. A forest *chauki* was built at Vagol for Rs. 52/10/2.

54. The forest office at Desuri was extended and Rs. 24/ spent over the work.

55. *Sojat Range*.—The forest house at Saran was extended by the addition of an office room at a cost of Rs. 54/4/6.

56. The forest *chaukis* at Shiryari, Badagudha and Phulad were repaired and kept in good order at a cost of Rs. 12/10/6.

CHAPTER IV.

Yield and Working.

57. The total outturn of timber and fuel expressed in cubic feet compares with that of the previous year as follows:—

The summary of produce removed from the forest.

| Description. | TIMBER. | | FUEL. | | Remarks. |
|---------------------------|----------|----------|----------|----------|----------|
| | 1897-98. | 1898-99. | 1897-98. | 1898-99. | |
| Removed by Raj Agency ... | 2,675 | 1,642 | 22,372 | 25,552 | |
| „ „ Purchasers ... | 42,846 | 40,081 | 95,919 | 1,50,247 | |
| „ „ Right holders ... | 34,264 | 28,497 | 2,66,060 | 2,46,496 | |
| „ „ Free grants ... | ..... | ..... | ..... | ..... |  |
| Total ... | 79,785 | 71,120 | 3,84,351 | 4,31,295 | |
| Raipur ... | ..... | 4,142 | ..... | 1,41,624 | |
| Ghanerao ... | ..... | 3,364 | ..... | 7,120 | |
| Grand total ... | 79,785 | 78,626 | 3,84,351 | 5,80,039 | |

58. The comparative value of minor produce removed during the year under report and that of the previous one is as follows:—

| Description. | VALUE. | | Remarks. |
|---------------------------|----------|----------|----------|
| | 1897-98. | 1898-99. | |
| Removed by Raj Agency ... | 915 | 595 | |
| „ „ Purchasers ... | 2,765 | 4,269 | |
| „ „ Right holders ... | 7,315 | 8,810 | |
| „ „ Free grants ... | ..... | ..... |  |
| Total ... | 10,995 | 13,674 | |
| Raipur ... | ..... | 3,086 | |
| Ghanerao ... | ..... | 551 | |
| Grand total ... | 10,995 | 17,311 | |

59. The removal of timber, as was anticipated decreased and that of fuel, except in case of right holders, increased. It was a famine year and the prospects of trade in timber were very much obscured. The timber did not find a ready sale and traders began soon to withdraw their capital to other more promising branches of trade. The Department also curtailed its working.

I. Departmental operations.

60. The outturn of timber by Raj Agency fell from 2675 to 1642 owing mainly to want of a ready market.

61. The outturn of fuel was increased by about 3180 cubic feet. 3695 maunds of fuel were collected from Nana forest and this added on to the last year's balance brought the total to 4580. Of this 4260 maunds were supplied to the central Jail at Jodhpur

62. 202 maunds of chareoal were prepared in Nana forest. Of this 153 maunds were sent to the mint at Jodhpur and the balance sold locally.

63. 3000 bamboos were cut from Nana forest and sent to the sale Depot at Pali, and 612 from Desuri Forest were utilized for the state garden there.

64. The value of minor produce amounted to Rs. 993/ against 353/ during the last year. The increase was due to sale of about 1,800 maunds of grass to the state cavalry (Sirdar Risala).

II. Removals by purchasers.

65. As stated in para 59 the removal of timber by purchasers fell down by 1865 cubic feet.

66. The outturn of firewood removed by purchasers was greatly enhanced, being 63,328 cubic feet in excess of the total last year. The neighbouring population (chiefly agricultural people) found no crops coming up and had to decide upon some means of sustenance. Collecting fuel from forests and selling it to the population removed away from forests was the easiest at their command. They therefore very eagerly took to it and brought in the said increase.

67. 957 maunds of chareoal were also prepared by the purchasers.

68. 40,225 bamboos were removed by the purchasers against 49,272 during the last year. There is thus a decrease of 9,047.

69. Rs. 2,118 were realized by sale of grass and grazing against 618/ last year. There was very little grass to be found elsewhere and the cattle flocked into the forest and caused the increase.

70. Under minor produce Rs. 1,326 were realized as against Rs. 1,007 last year. The increase was due to the opening of Siwana and Parbatsar Ranges.

III. Free grants and removal by right holders.

71. No free grants were made during the year under report, but produce given free to right holders is treated under the head of right holders.

72. The right holders removed produce as follow:—

(a) TIMBER.

| | | | |
|------------------------------------|-----|--------|------|
| 73. A class free of charge | ... | 24,476 | cft. |
| B. and C. classes at reduced rates | | 4,021 | „ |
| | | <hr/> | |
| Total | ... | 28,497 | „ |

(b) FIREWOOD.

| | | |
|-----|----------------------------------|-----------------|
| 74. | A. and B. classes free of charge | 1,68,559 cft. |
| | C. class at reduced rates | 77,937 |
| | Total ... | <u>2,46,496</u> |

(c) BAMBOOS.

| | | |
|-----|------------------------------------|------------|
| 75. | A class free of charge | ... 100 |
| | B. and C. classes at reduced rates | ... 864 |
| | Total ... | <u>964</u> |

(d)

I. GRASS AND GRAZING.

| | | |
|-----|----------------------------------|---------------|
| 76. | A. and B. classes free of charge | 9,014 Mds. |
| | C. class at reduced rates ... | 35,413 „ |
| | Total ... | <u>44,427</u> |

II. GRAZING.

| | | |
|-----|------------------------------------|--------------------------|
| 77. | A. class free of charge | ... 6,604 Hd. of cattle. |
| | B. and C. classes at reduced rates | 19,275 „ |
| | Total ... | <u>25,879</u> |

(e) MOHYA AND KANRI.

| | | |
|-----|------------------------------------|---------------------|
| 78. | A. class free of charge | ... 5,237 Hd. load. |
| | B. and C. classes at reduced rates | 3,590 „ |
| | Total ... | <u>8,827</u> |

CHAPTER V.*Financial results.*

71. The actual revenue was Rs. 28,643/- i. e. 5,728/- more than the previous year. The net surplus was Rs. 7,718/- against Rs. 3,481 of 1897-98.

80. The expenditure rose to Rs. 20,925/- against Rs. 20,434 during 1897-98 owing to the opening of Siwana and Parbatsar Ranges.

81. The receipts and charges for the last 3 years compare as follows :—

| Particulars. | 1896-97. | 1897-98. | 1898-99. | REMARKS. |
|--------------|----------|----------|----------|----------|
| Receipts ... | 22,333 | 23,915 | 28,643 | |
| Charges ... | 19,158 | 20,434 | 20,925 | |
| Surplus ... | 3,175 | 3,481 | 7,718 | |

82. The financial results of the Jagir forests stand as follows :—

| <i>Raipur</i> | | 1897-98. | | 1898-99. |
|------------------|-----|-----------|-----|------------------|
| Receipts | ... | 2,300—0—0 | ... | 4,444—0—0 |
| Expenses | ... | 1,524—0—0 | ... | 1,541—0—0 |
| Surplus | ... | 776—0—0 | ... | <u>2,903—0—0</u> |
| <i>Ghanerao.</i> | | | | |
| Receipts | ... | 698—0—0 | ... | 834—0—0 |
| Expenses | ... | 356—0—0 | ... | 358—0—0 |
| Surplus | ... | 342—0—0 | ... | <u>476—0—0</u> |
| <i>Bar.</i> | | | | |
| Receipts | ... | 61—0—0 | ... | 273—0—0 |
| Expenses | ... | 43—0—0 | ... | 55—0—0 |
| Surplus | ... | 18—0—0 | ... | <u>218—0—0</u> |
| <i>Barantia.</i> | | | | |
| Receipts | ... | 79—0—0 | ... | 164—0—0 |
| Expenses | ... | 63—0—0 | ... | 68—0—0 |
| Surplus | ... | 16—0—0 | ... | <u>96—0—0</u> |
| <i>Babra</i> | | | | |
| Receipts | ... | 38—0—0 | ... | 303—0—0 |
| Expenses | ... | 61—0—0 | ... | 77—0—0 |
| Surplus | ... | 23—0—0 | ... | <u>226—0—0</u> |
| <i>Somel.</i> | | | | |
| Receipts | ... | 523—0—0 | ... | 530—6—6 |
| Expenses | ... | 90—0—0 | ... | 66—2—0 |
| Surplus | ... | 433—0—0 | ... | <u>464—4—6</u> |

CHAPTER VI.

Village Fuel and Fodder Reserves.

83. The formation of village Fuel and Fodder Reserves was continued and 1,310 acres in Khamal, Sodawas, Bomadra, Miniari and Bálá were taken up. On the other hand the reserve in Panchwa khurd amounting to 689 Bighas was given up, as it was situate just near the village and proved, in a way, inconvenient to the villagers.

84. The following are the details of the areas under treatment at close of the year :—

| <i>Names</i> | | | | <i>Area in bighas.</i> |
|-----------------|-----|-----|-----|------------------------|
| Bambholai | ... | ... | ... | 1,800 |
| Samra | ... | ... | ... | 554 |
| Sowania | ... | ... | ... | 437 |
| Deoli | ... | ... | ... | 1,400 |
| Udesi kuwa | ... | ... | ... | 1,329 |
| Khamal | ... | ... | ... | 295 |
| Sodawas | .. | ... | ... | 78 $\frac{3}{4}$ |
| Bomadra | ... | ... | ... | 464 $\frac{1}{4}$ |
| Miniari | ... | ... | ... | 1303 |
| Bala | ... | ... | ... | 1136 |
| Hemliawas | ... | ... | ... | 150 |
| Barsan | ... | ... | ... | 100 |
| Gudha Bishnoyan | ... | ... | ... | 1,000 |

85. Sowings were made in all the Reserves old and new but with no good results. The rains held off and the seed in some places did not germinate at all and in others died soon after germination.

86. In Hemliawas Reserve of the 2,324 plants of the last year many died down through want of moisture.

87. Barsan lost similarly and so did Nayagaon and others.

88. In Murdawa Reserve 90 acres were coppiced in the years before and the coppice shoots, though thrown back in growth, were doing well.

89. Famine as a famine was really much to be deplored and the country may, so grant Almighty, be spared the dire scourage. It however created a chance for the utility of these Reserves to be practically realized. The Reserves of Deoli, Mourdawa, Udesi kuwa and Bambholai did a good service to the agricultural population concerned. They had an abundance of grass and they were thrown open to the grazing of the surrounding cattle just when the pinch of fodder famine began to be felt. The people were thus through the help of these reserves kept back from migrating in tears to the grassy lands of Malwa. It is very strongly recommended that formation of such reserves should be carried on from year to year.

90. The financial results for the Fuel and Fodder reserves stand as follows:—

| <i>Revenue.</i> | | <i>Expenditure.</i> |
|-----------------|---------------------|---------------------|
| Rs. 281—0—0 | Establishment | Rs. 722—0—0 |
| | Sowing and planting | 211—0—0 |
| | Fencing | ..... |
| | Improvement | 147—0—0 |
| | Miscellaneous | 129—0—0 |
| | Total ... | 1209—0—0 |

CHAPTER VII*Arboriculture.*

91. No new plantations were formed. The plantations at His Highness's Bungalow were extended and 2,272 plants made up of 297 mangocs, 1,705 Jaman, 172 Nim, 83 Siris, 99 Shishum and 16 miscellaneous were put out as under:—

| | | | |
|--------------------------|-----|-----|-------|
| Plantations Nos. 8 and 9 | ... | ... | 550 |
| Behind the Bungalow | ... | ... | 1,211 |
| Polo ground | ... | ... | 160 |
| Race Course | ... | ... | 351 |
| Total | | | 2,272 |

92. 64 mangoes and 3 Jamans were planted out at Bera Chensookh and 225 mangoes at Chopasani, 17 mangoes were planted out at the Swimming Bath attached to Thakur Hari Singh's Bungalow.

93. 3,139 plants of various species were utilized in making good the failures along roads &c.

94. The nursery at Bera Chensookh supplied planting material for Takhatsagar road and contained 225 plants at close of the year.

95. The old nursery at Balsamand was kept up and contained 600 Nim, 150 Shishum, 100 Jaman, 75 Siris, 175 Bakain and 50 pomegranates plants.

96. The nursery in plantation No. 8 at His Highness's Bungalow had 100 Jaman, 1,500 Nim, 200 Shishum and 150 Siris plants at close of the year.

97. Small nurseries were also kept up at Chittar, Plantation No. 7 and Badabhakar.

98. 3,106 pits were dug out and 1846 Kacha Golras prepared for the protection of plants. 3,000 cf. of ditch was dug round the nursery at Bera Chensookh.

99. 24,751 plants received no watering while 24,521 did.

100. The revenue from arboriculture amounted to Rs 243/ derived chiefly by sale of plants.

The expenditure was as follows:—

| | | Actual for 97-98. | Actual for 98-99. | Sanctioned for 98-99. |
|--------------------------|-----|----------------------|----------------------|--------------------------|
| Protective Establishment | ... | 1,215 | 1,270 | 1,248 |
| Office | Do. | 180 | 180 | 180 |
| Watering | Do. | 7,740 | 9,621 | 11,131 |
| Malis | Do. | 2,999 | 3,494 | 3,750 |

| | | | | | | |
|---------------------------|-----|--------|-----|--------|-----|---------|
| Working of wells | ... | 679 | ... | 563 | ... | } 1,550 |
| Feed and keep of bullocks | ... | 2,099 | ... | 1,619 | ... | |
| Nurseries and planting | ... | 297 | ... | 432 | ... | 553 |
| Fencing | ... | 1,165 | ... | 2,284 | ... | 2,130 |
| Tools | ... | 9 | ... | 15 | ... | ... |
| Badabhakar | ... | 1,351 | ... | 182 | ... | 215 |
| Chhettar | ... | 6 | ... | 0 | ... | 0 |
| Miscellaneous | ... | 1,036 | ... | 882 | ... | 856 |
| Total | ... | 18,776 | ... | 20,542 | ... | 21,613 |

CHAPTER VIII.

Gardens.

102. Nanna Mian's garden and the Raj Bagecha at Jodhpur and the Sadri Bund Garden at Sadri were added to the charge of the department during the year.

103. The Residency and other bungalow gardens were looked after as usual and kept in good order.

104. The Ratanada Garden and the nursery there were kept up and the latter contained 600 mango and 1900 Jaman plants at close of the year.

105. The Nanna Mian's garden had about 700 graft *Zyzphus* plants in addition to the flowering plants.

106. The Desuri Palace gardens were looked after by the Ranger there. The rains held off, and very little could be done to improve them.

107. The Sadri Bund garden has about 700 fine graft mangoes. A nursery was started there further to stock and improve it. Unfortunately rains held off and nothing could be done.

108. At Sewari an area about 2.5 Bighas was sown with Indian and English Vegetables for supply of Musahib Ala's Camp. The camp was subsequently broken up and the vegetables sent to him at Jodhpur.

109. As stated in para. 120 of last year's report cavalry horse continued to be supplied with lucerne grass.

110. The Balsamand, Mandore and Takhtsagar Darogas remained as irregular as last year and their work thus could not be included in the report.

111. The financial results of the gardens, excepting the above three, were as follows:—

| Revenue. | Expenditure. |
|----------|--------------|
| 187-0-0 | 10,061-0-0 |

CHAPTER IX.

General.

112. Two Jamiat Sowars of the Kot Jagirdar remained with this department only just to break the monotony of "entire absence." As stated in para 123 of last year's report, the Hakumats were ordered to supply the necessary Sowars but they never did and mercenary Sowars had to be employed as before.

113. Pandit Gokal Das remained in charge of the department till 11th February, when he got a lift and left for good to join the Forest Service Panjab, handing over charge to the writer and carrying with him the good wishes and regards of all that had an opportunity to work under him.

114. Forest Ranger Rakheshwar remained in charge of the Desuri Range throughout the year.

115. Forest Ranger Gokal Chand held charge of Godwar Range and supervised the revenue work of the Grassia villages.

116. Forest Ranger Dowlat Ram was transferred to the newly created Siwana Range, Ranger Chatar Bhuj taking his place in Sojat Range. Chatar Bhuj seems inclined to justify the hopes the late Superintendent placed in him.

117. Ranger Jagan Nath held charge of the Raipur Range. He has surveyed almost all the Raipur forests and has an excellent work to show.

118. The office establishment worked satisfactorily.

119. The following forms are hereto attached :—

| | | | | | |
|------|-----|-----|-----|-----|--------|
| Form | ... | ... | ... | ... | No. 49 |
| " | ... | ... | ... | ... | " 50 |
| " | ... | ... | ... | ... | " 51 |
| " | ... | ... | ... | ... | " 54 |
| " | ... | ... | ... | ... | " 55 |
| " | ... | ... | ... | ... | " 56 |
| " | ... | ... | ... | ... | " 58 |
| " | ... | ... | ... | ... | " 59 |
| " | ... | ... | ... | ... | " 60 |
| " | ... | ... | ... | ... | " 61 |
| " | ... | ... | ... | ... | " 62 |

ANNUAL FORM NO. 49.

Forest Department Marwar. Area of Forest 1898-99.

(17)

| State. | Range. | AREA ON 1ST APRIL 1898. | | Added during the year. | Excluded or trans- ferred to other heads. | AREA ON 1ST APRIL 1899. | | Number and date of kateyat of addition and transfer. | REMARKS. | |
|---------|----------|--|--|------------------------------|---|----------------------------|--|---|---|-----------------|
| | | Acres. | Equiva- lent in square miles. | | | Acres. | Equiva- lent in square miles. | | | |
| MARWAR. | { Khalsa | Godhwar | ... | ... | ... | 1,24,230 | 194.11 | ..... | Besides these 7.75 square miles are re- served as Fuel and Fodder Re- serves. | |
| | | Sojat | ... | ... | ... | 41,600 | 65. | ..... |  |  |
| | | Sivana | ... | ... | 3,840 | ... | 8,840 | 6. |  | ..... |
| | | Raipur | ... | ... | ... | ... | 8,320 | 13. | | Parcha No. 207 |
| | | Ghanerao | ... | ... | ... | ... | 8,277 | 5.12 | | dated 21st July |
| | { Jagir | Barantia | ... | ... | ... | ... | 960 | 1.50 | | 1898. |
| | | Babra | ... | ... | ... | ... | 960 | 1.50 |  | ..... |
| | | Bar | ... | ... | ... | ... | 480 | .75 |  | ..... |
| | | Sumel | ... | ... | ... | ... | 1,920 | 3. |  | ..... |
| | | Pi, Basi, Banwal, Maya- pur, Kalyatra, and Bidad | ... | ... | ... | ... | 7,360 | 11.50 |  | ..... |
| | { | Mokalsar, Ramania, Mawri, Gungrot, Go- lia, Piploon, Gudha- Nal, Sener, Kundal, Sela, Janpur, Mangi, Dhiran, Telwara and Bhagwan | ... | ... | 21,760 | ..... | 21,760 | 34 |  | ..... |
| | | Total | ... | ... | 25,600 | ..... | 2,14,707 | 335.48 |  | ..... |
| | | | | | | | | | | |

ANNUAL FORM NO. 50.

Forest Department, Marwar State. Register of Breaches of Forest Rules during 1898-99.

| Forest Range and Civil Pergana. | NEW CASES OF THE YEAR. | | | | | | | DISPOSED OF DURING THE YEAR. | | | | | | | Remarks. |
|---|-----------------------------|---------------------------|--|--|-----------------|----------------------------------|--------------|------------------------------|-----------|-------------|-----------|--------|-----------|-------------------------------------|----------|
| | Cases pending from 1897-98. | Injury to forest by fire. | Unauthorised felling or appropriation of wood and minor produce. | Grazing without permission or in tract in which grazing is prohibited. | Other offences. | Total new cases during the year. | Total cases. | Convictions. | | Acquittals. | | Total. | | Cases pending at close of the year. | |
| | | | | | | | | Cases. | Per-sons. | Cases. | Per-sons. | Cases. | Per-sons. | | |
| A.—Cases tried by Magistrates:— | | | | | | | | | | | | | | | |
| Godhwar { Sewari ... | 7 | ... | 12 | 1 | ... | 13 | 20 | ... | ... | 18 | 18 | 18 | 18 | 2 | |
| Desuri ... | 2 | ... | 1 | ..... | 1 | 2 | 4 | 1 | 3 | 1 | 1 | 2 | 4 | 2 | |
| Sojat ... | ... | ... | 4 | ..... | 3 | 7 | 7 | 3 | 8 | 4 | 5 | 7 | 13 | ... | |
| Sivana ... | ... | ... | 1 | ..... | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | 1 | |
| Total ... | 9 | ... | 18 | 1 | 4 | 23 | 32 | 4 | 11 | 23 | 24 | 27 | 35 | 5 | |
| B.—Cases compounded by Forest officials:— | | | | | | | | | | | | | | | |
| Godhwar { Sewari ... | ... | 3 | 91 | 106 | 27 | 227 | 227 | 227 | 661 | ... | ... | 227 | 661 | ... | |
| Desuri ... | ... | 1 | 19 | 5 | 3 | 28 | 28 | 28 | 81 | ... | ... | 28 | 81 | ... | |
| Sojat ... | ... | 1 | 97 | 11 | ... | 109 | 109 | 109 | 144 | ... | ... | 109 | 144 | ... | |
| Sivana ... | ... | ... | ... | 71 | 5 | 76 | 76 | 76 | 120 | ... | ... | 76 | 120 | ... | |
| Total ... | ... | 5 | 207 | 193 | 35 | 440 | 440 | 440 | 1,006 | ... | ... | 440 | 1,006 | ... | |
| Raipur ... | ... | ... | ... | ..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |  |
| Ghanerao ... | ... | ... | 81 | 21 | ... | 102 | 102 | 102 | 139 | ... | ... | 102 | 139 | ... | |
| Total Jagir Ranges ... | ... | ... | 81 | 21 | ... | 102 | 102 | 102 | 139 | ... | ... | 102 | 139 | ... | |
| Grand Total ... | 9 | 5 | 306 | 215 | 39 | 565 | 574 | 546 | 1,156 | 23 | 24 | 569 | 1,180 | 5 | |

ANNUAL FORM NO. 51.

Forest Department, Marwar State. Area of Forest tracts protected from fire during the dry season of 1899.

| Range. | Forest tracts. | Year in which protection commenced | Area actually protected up to 15th June 1898. | DURING DRY SEASON 1899. | | | Cost during the season. | REMARKS. |
|--|---|------------------------------------|---|--------------------------------|-----------|---------------------|-------------------------|----------|
| | | | | Area attempted to be protected | Failures. | Actually protected. | | |
| Khalisa. { Godhwar ... Sojat ... | Sewari block ... | 1891 | 1,13,415 | 1,13,600 | 4 | 1,13,596 | 131 | |
| | Desuri " ... | | 10,618 | 10,630 | ..... | 10,630 | 83 | |
| | Kantalia " ... | ..... | 41,570 | 41,600 | ..... | 41,600 | 138 | |
| | Siwana " ... | ..... | ..... | 3,840 | ..... | 3,840 | ..... |  |
| | Total ... | | 1,65,603 | 1,69,670 | 4 | 1,69,666 | 352 | |
| { Raipur Ghanerao Jaitaran Parbatsar Siwana | Raipur ... | 1894 | 7,665 | 8,320 | ..... | 8,320 | Rs. 21 | |
| | Ghanerao ... | 1895 | 1,580 | 3,277 | ..... | 3,277 | 20 | |
| | Bar, Barantia, Babra and sumel ... | 1896 | 4,320 | 4,320 | ..... | 4,320 | ..... |  |
| | Pi, Basi, Banwal, Mayapur, Kalyatra and Bidiad ... | 1897 | 7,360 | 7,360 | ..... | 7,360 | ..... |  |
| | Mokalsar, Ramnia, Mawri, Gungrot, Golia, Piploon, Gudha Nal, Sener, Kundal, Sela, Ganspur, Mangi, Dhiran, Telwara and Bhagwan ... | 1898 | ..... | 21,760 | ..... | 21,760 | | |
| | Total ... | ..... | 20,925 | 45,037 | ..... | 45,037 | 41 | |
| | Grand Total ... | ..... | 1,86,528 | 2,14,707 | 4 | 2,14,703 | 393 | |

JAGIR.

ANNUAL FORM NO. 54.

Forest Department, Marwar State. Outturn (in cubic feet solid) of timber and fuel during the year 1898-99 and Agency of exploitation.

| Range. | TIMBER IN THE ROUGH LOGS. | | | | TIMBER IN THE ROUGH FOLDS. | | | | SAWN OR SQUARED TIMBER. | | | | MISCELLANEOUS. | | | | FUEL. | | | | TOTAL. |
|--|---------------------------|-------------|--------------|----------------|----------------------------|-------------|-------------|--------------|-------------------------|--------|-------------|-------------|----------------|----------------|--------|-------------|-------------|--------------|----------------|--------|--------|
| | Raj Agency. | Purchasers. | Free grants. | Right holders. | Total. | Raj Agency. | Purchasers. | Free grants. | Right holders. | Total. | Raj Agency. | Purchasers. | Free grants. | Right holders. | Total. | Raj Agency. | Purchasers. | Free grants. | Right holders. | Total. | |
| | | | | | | | | | | | | | | | | | | | | | |
| Godhra { Sewari block... Desuri Sojat | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Sivana | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Parbatsar | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Raipur | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Ghanearo | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Grand Total | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |

ANNUAL FORM NO. 55.

Forest Department, Marwar State. Outturn of Minor produce during the year 1898-99.

| Range. | Description of produce. | RAJ AGENCY. | | PURCHASERS. | | FREE GRANTS. | | RIGHT-HOLDERS. | | TOTAL. | | Remarks. |
|--------------|-------------------------|-------------|--------|-------------|--------|--------------|--------|----------------|--------|-----------|--------|--------------|
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | |
| Sewari block | Bamboos ... | 3,050 | 240 | 13,536 | 317 | .. | .. | 964 | 13 | 17,550 | 570 | By contract. |
| | Grass (maunds) | 451 | 113 | .. | .. | .. | .. | .. | .. | 451 | 113 | |
| | " (cart loads) | .. | .. | 520 | .. | .. | .. | .. | .. | 1,480 | 2,030 | |
| | " (Head loads) | .. | .. | 11,878 | 302 | .. | .. | 19,593 | 1,728 | 31,471 | 2,226 | |
| | Grazing (cattle) | .. | .. | 410 | 339 | .. | .. | 11,795 | 1,887 | 12,205 | 142 | |
| | Mohya (Head loads) | .. | .. | 1,312 | 82 | .. | .. | 1,472 | 60 | 2,784 | 383 | |
| | Kamri " | .. | .. | 418 | 39 | .. | .. | 3,818 | 344 | 4,236 | 201 | |
| | Honey and wax | .. | .. | .. | 201 | .. | .. | .. | .. | .. | 193 | |
| | Skin | .. | .. | .. | 193 | .. | .. | .. | .. | .. | 373 | |
| | Miscellaneous... | .. | .. | .. | 186 | .. | .. | .. | 187 | .. | .. | |
| Desuri | Bamboos ... | 612 | 14 | 26,953 | 618 | .. | .. | .. | .. | 27,565 | 632 | By contract. |
| | Grass (maunds) | 118 | 145 | .. | .. | .. | .. | .. | .. | 118 | 145 | |
| | " (cart loads) | 109 | 27 | .. | .. | .. | .. | .. | .. | 291 | 73 | |
| | " (Head loads) | .. | .. | 38 | 10 | .. | .. | 144 | 36 | 16,395 | 215 | |
| | Grazing (cattle) | .. | .. | 1,880 | 31 | .. | .. | 14,515 | 184 | 5,980 | 1,851 | |
| | Kamri (Head loads) | .. | .. | 1,384 | 656 | .. | .. | 4,596 | 1,195 | 2,604 | 208 | |
| | Honey and wax | 166 | 14 | 1,410 | 111 | .. | .. | 1,028 | 83 | .. | 16 | |
| | Mohya (Head loads) | .. | .. | .. | 16 | .. | .. | .. | .. | .. | 1 | |
| | Miscellaneous... | .. | .. | 16 | 1 | .. | .. | .. | .. | 16 | 254 | |
| | | | 38 | 9 | 925 | 152 | .. | .. | 2,862 | 93 | 3,825 | |
| | Total Carried over ... | 4,544 | 562 | 60,680 | 3,254 | .. | .. | 61,747 | 5,810 | 1,26,971 | 9,626 | |

ANNUAL FORM NO. 55.—(Continued.)

Forest Department, Marwar State. Outturn of Minor produce during the year 1898-99.

| Range. | Description of produce. | RAJ AGENCY. | | PURCHASERS. | | FREE GRANTS. | | RIGHT-HOLDERS. | | TOTAL. | | Remarks. |
|-----------|-------------------------|-------------|--------|-------------|--------|--------------|--------|----------------|--------|-----------|--------|--------------|
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | |
| Sojat | Total Brought forward | 4,544 | 562 | 60,680 | 3,254 | .. | .. | 61,747 | 5,810 | 1,26,971 | 9,626 | |
| | Bamboos | ..... | .. | 736 | 17 | .. | .. | ..... | ..... | 736 | 17 | |
| | Grass (maunds) | 150 | 30 | ..... | ..... | .. | .. | ..... | ..... | 150 | 30 | |
| | " (cart loads) | ..... | .. | ..... | ..... | .. | .. | 1,816 | 454 | 1,816 | 454 | |
| | " (Head loads) | ..... | .. | 1,282 | 20 | .. | .. | 2,654 | 15 | 3,936 | 35 | |
| | Grazing (cattle) | ..... | .. | 715 | 310 | .. | .. | 6,731 | 1,419 | 7,446 | 1,729 | |
| | Kauri (Head loads) | ..... | .. | 1,015 | 135 | .. | .. | 2,558 | 219 | 4,173 | 354 | |
| | Honey and wax | ..... | .. | ..... | 63 | .. | .. | ..... | ..... | ..... | 63 | By contract. |
| | Miscellaneous | ..... | .. | 5,801 | 277 | .. | .. | 144 | 2 | 5,945 | 279 | |
| | Grass (cart loads) | ..... | 3 | 56 | 14 | .. | .. | 700 | 175 | 756 | 192 | |
| Siwana | " (Head loads) | ..... | .. | 343 | 5 | .. | .. | 1,417 | 18 | 1,760 | 23 | |
| | Grazing (cattle) | ..... | .. | 379 | 149 | .. | .. | 2,069 | 433 | 2,448 | 582 | |
| | Pala (cart loads) | ..... | .. | 8 | 4 | .. | .. | 100 | 50 | 108 | 54 | |
| | " (Head loads) | ..... | .. | 14 | 1 | .. | .. | ..... | ..... | 14 | 1 | |
| Parbatsar | Grass (Head loads) | ..... | .. | 54 | 2 | .. | .. | ..... | ..... | 54 | 2 | |
| | Grazing (cattle) | ..... | .. | ..... | ..... | .. | .. | 688 | 215 | 688 | 215 | |
| | Miscellaneous | ..... | .. | 192 | 18 | .. | .. | ..... | ..... | 192 | 18 | |
| | Total | 4,694 | 595 | 71,875 | 4,269 | .. | .. | 80,624 | 8,810 | 1,57,193 | 13,674 | |

| | | | | | | | | | | | | |
|-------------|--------------------|-----|-------|-----|--------|-------|-----|-----|----------|--------|----------|--------|
| Raipur | Grass (Head loads) | ... | 48 | 8 | 600 | 9 | ... | ... | 22,817 | 623 | 23,465 | 640 |
| | " (cart loads) | ... | ..... | ... | 10 | 5 | ... | ... | ..... | ..... | 10 | 5 |
| | Grazing (cattle) | ... | ..... | ... | 622 | 281 | ... | ... | 3,887 | 1,620 | 4,509 | 1,901 |
| | Pala (cart) ... | ... | ..... | ... | ..... | ..... | ... | ... | 50 | 25 | 50 | 25 |
| | " (Head loads) | ... | ..... | ... | ..... | ..... | ... | ... | 105 | 7 | 105 | 7 |
| | Honey and wax | ... | ..... | ... | ..... | 16 | ... | ... | ..... | ..... | ..... | 15 |
| | Kamri (Head loads) | ... | ..... | ... | 1,612 | 87 | ... | ... | 1,234 | 111 | 2,846 | 198 |
| | Miscellaneous... | ... | ..... | ... | ..... | ..... | ... | ... | 8,897 | 295 | 8,897 | 295 |
| | Bamboos | ... | ..... | ... | 64 | 2 | ... | ... | 1,090 | 25 | 2,060 | 27 |
| | Grass (cart loads) | ... | ..... | ... | ..... | ..... | ... | ... | 59 | 15 | 59 | 15 |
| Ghanerno | " (Head loads) | ... | ..... | ... | ..... | ..... | ... | ... | 13,411 | 202 | 13,411 | 202 |
| | Kamri | ... | ..... | ... | ..... | ..... | ... | ... | 606 | 43 | 506 | 43 |
| | Grazing (cattle) | ... | ..... | ... | 8 | 2 | ... | ... | 979 | 141 | 1,153 | 207 |
| | Mohya (Head loads) | ... | ..... | ... | ..... | ..... | ... | ... | 163 | 5 | 163 | 5 |
| | Pala (Head loads) | ... | ..... | ... | ..... | ..... | ... | ... | 65 | 2 | 65 | 2 |
| | Miscellaneous... | ... | ..... | ... | ..... | ..... | ... | ... | 828 | 25 | 1,049 | 50 |
| | | ... | | ... | | | ... | ... | ... | ... | ... | ... |
| | | ... | | ... | | | ... | ... | ... | ... | ... | ... |
| | | ... | | ... | | | ... | ... | ... | ... | ... | ... |
| | | ... | | ... | | | ... | ... | ... | ... | ... | ... |
| Total | | ... | 48 | 8 | 2,911 | 401 | 392 | 89 | 54,997 | 3,139 | 58,348 | 3,637 |
| Grand Total | | ... | 4,742 | 603 | 74,786 | 4,670 | 392 | 89 | 1,35,621 | 11,949 | 2,15,541 | 17,311 |

[illegible]

ANNUAL FORM NO. 56.—(Continued.)

Forest Department, Marwar State. Accounts of Timber and other produce cut or collected by Raj Agency and brought to sale Depots or sold locally during the year 1898-99.

| Particulars. | No. or quantity | Cubic feet. | TOTAL OF EACH HEAD. | | Particulars. | No. or quantity. | Cubic feet. | TOTAL OF EACH HEAD. | |
|---------------------|-----------------|-------------|---------------------|-------------|---------------|------------------|-------------|---------------------|-------------|
| | | | No. or quantity. | Cubic feet. | | | | No. or quantity. | Cubic feet. |
| SOJAT RANGE | | | | | | | | | |
| Golia | 1,302 | | | | Danda | 86 | | | |
| Ins | 113 | | | | Thekri | 53 | | | |
| Upla | 92 | | | | Ins | 19 | | | |
| Dingar | 3,703 | | | | Paga | 158 | | | |
| Peed | 216 | | | | Dingar | 62 | | | |
| Danda | 2,099 | | | | Kani dhan | 100 | | | |
| Musal | 4 | | | | Mayal | 11 | | | |
| Thobli | 21 | | | | Golia | 2 | | | |
| Kani | 2 | | | | Singri dhan | 63 | | | |
| Pat | 12 | | | | Balli | 9 | | | |
| Beola | 52 | | | 7,616 | " khair | 23 | | | |
| JODHPUR. | | | | | | | | | |
| Chokhat | 2 | | | | Rank | 20 | | | |
| Ber wood | 52 | | | | Peel | 221 | | | |
| " Danda | 71 | | | | Thapa | 1 | | | |
| Nim wood | 10 | | | | Musal | 2 | | | |
| Shisham | 8 | | | | Hal | 6 | | | |
| Ber lath | 1 | | | | Beola | 1 | | | |
| Baoli arat | 5 | | | 149 | Jura | 1 | | | |
| Total true receipts | | | | | | | | | |
| | | | | 9,193 | Khil khair... | 1 | | | |
| | | | | | Kani " | 1 | | | 870 |
| II. Gross receipts— | | | | | | | | | |

| | | | |
|---|-------|--|-------|
| Jodhpur Range (mds) ... | 239 | Utilized by the Department Desuri ... | 3 |
| Desuri " (carts) ... | 157 | Total ... | 3 |
| Total ... | 5,739 | Total true disposal ... | 5,500 |
| II. Gross receipts. | | II. Gross disposal. | |
| Jodhpur Depot ... | 50 | Sewari Range ... | 50 |
| Total gross receipts ... | 50 | Total ... | 50 |
| Total Receipts ... | 5,789 | <i>Balance at close of the year—</i> | |
| Grand Total ... | 7,269 | Sewari Range ... | 1,518 |
| | | Desuri " ... | 143 |
| | | Jodhpur " ... | 58 |
| | | Total balance ... | 1,719 |
| | | Grand Total ... | 7,209 |
| CHAR COAL. | | | |
| <i>Balance at commencement of the year—</i> | | Disposal— | |
| I. True Receipts. | | I. True disposal. | 49 |
| | | Sold locally ... | 115 |
| <i>Received from forests during the year—</i> | | Removed by purchasers from Depot ... | 38 |
| Sewari Range ... | 202 | Struck off on account of being damaged | |
| Total true receipt ... | 202 | II. Gross disposal. | 202 |
| II. Gross Receipts. | | Total true disposal ... | |
| Jodhpur Sub-Range ... | 115 | Sewari Range ... | 115 |
| Total Receipts ... | 317 | Total gross disposal ... | 115 |
| | | Grand Total ... | 317 |

ANNUAL FORM NO. 56.—(Continued.)

Forest Department, Marwar State. Accounts of Timber and other produce cut or collected by Raj Agency and brought to sale Depots or sold locally during the year 1898-99.

| Particulars. | No. or quantity. | Cubic feet. | TOTAL OF EACH HEAD. | | Particulars. | No. or quantity. | Cubic feet. | TOTAL OF EACH HEAD. | |
|--|------------------|-------------|---------------------|-------------|--|------------------|-------------|---------------------|-------------|
| | | | No. or quantity, | Cubic feet, | | | | No. or quantity. | Cubic feet. |
| | | | BAMBOOS. | | | | | | |
| <i>Balance at commencement of the year—</i> | | | | | Disposal. | | | | |
| Jodhpur ... | ... | | 2,366 | | True disposal. | | | | |
| Receipts. | Total ... | | 2,366 | | <i>Removed by purchasers from the Depot—</i> | | | | |
| I. True receipts. | | | | | Jodhpur Sub-Range ... | ... | | 1,917 | |
| <i>Removed from forests during the year—</i> | | | | | Total true disposal ... | ... | | 1,917 | |
| Sewari Range ... | ... | | 3,000 | | II. Cross disposal. | | | 3,000 | |
| Total true receipts ... | | | 3,000 | | Sewari Range ... | ... | | 3,000 | |
| II. Cross Receipts. | | | | | Total cross ... | ... | | 449 | |
| Pali Range ... | ... | | 3,000 | | <i>Balance at close of the year—</i> | | | 3,000 | |
| Total Receipts ... | | | 6,000 | | Jodhpur ... | ... | | 3,449 | |
| Grand Total ... | | | 8,366 | | Pali Range ... | ... | | 8,366 | |
| | | | | | Total Balance ... | ... | | | |
| | | | | | Grand Total ... | ... | | | |

| | | | | | |
|---|-----|--|--|--|-------|
| <i>Balance at commencement of the year—</i> | | | | | |
| .. Sewari Range-grass | ... | | | | 924 |
| .. Desuri | ... | | | | 982 |
| .. Sojat | ... | | | | 1,196 |
| Total balance | ... | | | | 3,102 |
| I. True Receipts. | | | | | |
| Sewari Range-grass (mds.) | ... | | | | 496 |
| Desuri | ... | | | | 237 |
| " (carts) | ... | | | | 58 |
| Sojat | ... | | | | 109 |
| Total Receipts | ... | | | | 900 |
| Grand Total | ... | | | | 4,002 |
| MINOR PRODUCE. | | | | | |
| Disposal— | | | | | |
| I. True disposal. | | | | | |
| .. Sold locally— | | | | | |
| .. Sewari Range-grass | ... | | | | ... |
| .. Desuri | ... | | | | ... |
| .. Sojat | ... | | | | ... |
| Total | ... | | | | ... |
| <i>Utilized by the Department—</i> | | | | | |
| Sewari Range-grass (Mds.) | ... | | | | ... |
| Sojat | ... | | | | ... |
| Desuri | ... | | | | ... |
| " (carts) | ... | | | | ... |
| Total | ... | | | | ... |
| Total disposal | ... | | | | ... |
| <i>Balance at commencement of the year—</i> | | | | | |
| Sewari Range | ... | | | | 549 |
| Desuri | ... | | | | 122 |
| Sojat | ... | | | | 1,080 |
| Total balance | ... | | | | 1,751 |
| Grand Total | ... | | | | 5,753 |

ANNUAL FORM NO. 58.

Forest Department, Marwar State. Summary of Revenue of Marwar Forest during 1898-99.

| Budget Heads. | | Sowari range. | | | Desuri range. | | | Sojat range. | | | Parbatsar range. | | | Sivana range. | | | Total. | | REMARKS. |
|--|---|---------------|-------|-------|---------------|-------|-------|--------------|-------|-------|------------------|-------|-------|---------------|-------|-------|--------|-------|----------|
| | | | | | | | | | | | | | | | | | | | |
| I.—Timber and other produce removed from the Forests by Ray Agency. | | | | | | | | | | | | | | | | | | | |
| (a) | Timber | 126 | 3 | 0 | 18 | 12 | 3 | 398 | 10 | 3 | ..... | ..... | ..... | 13 | 6 | 0 | 556 | 15 | 3 |
| (b) | Firewood and charcoal | 1,912 | 3 | 0 | 7 | 8 | 0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1,919 | 11 | 0 |
| (c) | Bamboos | 146 | 0 | 10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 146 | 0 | 10 |
| (d) | Grass and other minor produce | 152 | 0 | 9 | 684 | 11 | 6 | 153 | 5 | 0 | ..... | ..... | ..... | 3 | 0 | 0 | 993 | 1 | 3 |
| II.—Timber and other produce removed from the Forests by purchases or consumers. | | | | | | | | | | | | | | | | | | | |
| (a) | Timber | 6,383 | 3 | 9 | 1,703 | 8 | 6 | 2,782 | 15 | 3 | ..... | ..... | ..... | 52 | 7 | 9 | 10,921 | 3 | 3 |
| (b) | Firewood and charcoal | 1,088 | 11 | 3 | 255 | 13 | 0 | 77 | 0 | 6 | 63 | 0 | 0 | ..... | ..... | ..... | 1,181 | 13 | 9 |
| (c) | Bamboos | 327 | 14 | 9 | 617 | 10 | 6 | 17 | 3 | 9 | 18 | 0 | 0 | ..... | ..... | ..... | 990 | 13 | 0 |
| (d) | Grazing and fodder grass | 2,618 | 10 | 9 | 1,911 | 3 | 3 | 1,768 | 10 | 9 | 160 | 7 | 0 | ..... | ..... | ..... | 6,980 | 6 | 3 |
| (e) | Other minor produce | 891 | 15 | 0 | 435 | 8 | 9 | 469 | 10 | 0 | 18 | 15 | 0 | 491 | 6 | 6 | 1,821 | 14 | 9 |
| III.—Confiscated drift and waif wood | | | | | | | | | | | | | | | | | | | |
| (a) | Duty on foreign Timber and other Forest produce | 20 | 12 | 6 | 33 | 1 | 3 | 10 | 5 | 9 | 1 | 2 | 9 | 5 | 11 | 0 | 1,821 | 14 | 9 |
| (b) | Revenue from shared and private Forests | 73 | 13 | 6 | 1 | 7 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | 0 | 1 | 6 | 65 | 7 | 9 |
| IV.—Miscellaneous— | | | | | | | | | | | | | | | | | | | |
| (a) | Fines and forfeitures | ..... | ..... | ..... | ..... | ..... | ..... | 74 | 3 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | 75 | 4 | 9 |
| (b) | Refunds | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 74 | 3 | 3 |
| (c) | Other sources | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| | Total | 810 | 3 | 9 | 542 | 9 | 0 | 595 | 7 | 9 | 101 | 14 | 6 | 529 | 15 | 3 | 2,610 | 2 | 3 |
| Add Arboriculture | | 11,623 | 15 | 10 | 6,211 | 15 | 0 | 6,847 | 8 | 3 | 863 | 7 | 3 | 1,096 | 3 | 0 | 28,643 | 1 | 4 |
| " Gardens |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 212 | 15 | 6 |
| Bera Booris |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 187 | 3 | 2 |
| Fuel and Fodder Reserves |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 375 | 7 | 3 |
| Miscellaneous |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 280 | 12 | 6 |
| Grand Total |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 35 | 0 | 7 |
| Raipur |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 29,764 | 8 | 1 |
| Ghanerao |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4,113 | 15 | 9 |
| Bar |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 833 | 11 | 9 |
| Barantra |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 273 | 4 | 6 |
| Babra |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 163 | 11 | 6 |
| Sunel |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 302 | 9 | 6 |
| Great Grand Total |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 530 | 6 | 6 |
|  |  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 36,312 | 3 | 1 |

ANNUAL FORM NO. 58. — (Continued)
Forest Department, Marwar State. Summary of expenditure of different ranges of Marwar Forests during 1898-99.

| BUDGET HEADS. | | Direction. | Sewari range. | Desmii | Sojot range. | Parbat-ar range. | Siwana range. | Jodhpur range. | Total. | Remark. |
|---|---|------------|---------------|----------|--------------|------------------|---------------|----------------|------------|---------|
| A. CONSERVANCY. | | | | | | | | | | |
| <i>I. Timber and other produce removed from the forests by Raj Agency.</i> | | | | | | | | | | |
| (a) | Timber ... | ... | 6 1 0 | 109 14 4 | 151 0 3 | ... | ... | ... | 270 2 7 | |
| (b) | Firewood and charcoal ... | ... | 1,683 15 1 | 2 4 0 | 1 5 0 | ... | ... | ... | 1,687 11 9 | |
| (c) | Bamboos ... | ... | 51 8 0 | ... | ... | ... | ... | ... | 51 8 0 | |
| (d) | Grass and other minor produce ... | ... | 53 5 3 | 43 8 0 | 78 15 0 | ... | ... | ... | 375 15 3 | |
| <i>II.—Timber and other produce removed from the forests by purchasers and consumers.</i> | | | | | | | | | | |
| <i>III.—Confiscated drift and waifwood.</i> | | | | | | | | | | |
| <i>IV.—Revenue from forest not managed by Raj.</i> | | | | | | | | | | |
| (a) | Duty on foreign timber and other forest produce | ... | ... | ... | ... | ... | ... | ... | ... | |
| (b) | Revenue from shared and private forests ... | ... | ... | ... | ... | 42 1 3 | ... | ... | 42 1 3 | |
| <i>V.—Rent of leased forests and payment to share holders in forests managed by Raj.</i> | | | | | | | | | | |
| <i>VI.—Live stock stores, tools and plants.</i> | | | | | | | | | | |
| (a) | Purchase of cattle ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| (b) | Feed and keep of cattle ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| (c) | Purchase of tools, stores and plants | 49 1 3 | 67 0 6 | 1 3 3 | 2 4 6 | ... | 4 7 9 | ... | 121 1 3 | |
| <i>VII.—Communications and buildings.</i> | | | | | | | | | | |
| (a) | Roads and bridges ... | ... | 196 6 0 | ... | 168 1 9 | ... | ... | ... | 304 7 0 | |
| (b) | Buildings ... | ... | 160 12 9 | 100 3 3 | 82 8 9 | ... | ... | ... | 343 8 0 | |
| (c) | Other works ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| <i>VIII.—Demarcations, improvements and extensions of Forests</i> | | | | | | | | | | |
| (a) | Demarcations ... | ... | 58 4 0 | 56 7 6 | 63 12 0 | ... | ... | ... | 178 7 6 | |
| (b) | Compensation of land and rights ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| (c) | Surveying and working plans ... | 616 11 6 | 76 8 6 | 17 10 2 | 213 9 0 | ... | ... | ... | 931 7 6 | |
| (d) | Sowing and planting ... | ... | 79 15 9 | 12 7 6 | 21 4 9 | ... | ... | ... | 113 12 0 | |
| (e) | Protection from fire ... | ... | 568 8 0 | 237 11 7 | 120 0 0 | ... | ... | ... | 926 3 7 | |
| (f) | Other works ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| <i>IX.—Miscellaneous.</i> | | | | | | | | | | |
| (a) | Refunds ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| (b) | Law charges ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| (c) | Other charges ... | 19 3 0 | 93 4 3 | 104 13 8 | 152 12 6 | ... | 32 5 6 | ... | 402 6 11 | |
| Total A. Conservancy ... | | 681 15 9 | 3,101 15 9 | 986 7 1 | 1088 12 6 | 42 1 3 | 36 13 3 | ... | 5,841 1 7 | |

ANNUAL FORM NO. 59.

Forest Department, Marwar State. Accounts current for the year 1898-99.

| Cash balance ... | Rs. | A. P. | Rs. | A. P. | Expenditure as per annual summary Form No. 58. | Rs. | A. P. | Rs. | A. P. |
|---|--------|-------|----------|-------|--|--------|-------|----------|-------|
| Revenue as per annual summary Form No. 58 | ..... |  | 161 | 6 9 | Forest conservancy... | 20,925 | 6 3 | | |
| Forest conservancy... | 28,643 | 1 4 | | | Arboriculture ... | 20,542 | 4 1 | | |
| Arboriculture ... | 242 | 15 6 | | | Gardens ... | 10,060 | 10 7 | | |
| Gardens ... | 187 | 3 2 | | | Fuel and Fodder Reserves ... | 1,208 | 13 7 | | |
| Fuel and Fodder Reserves ... | 280 | 12 6 | | | Bera baoris .. | 6,747 | 5 8 | | |
| Bera baoris ... | 375 | 7 3 | | | Miscellaneous ... | 68 | 1 6 | 59,552 | 10 6 |
| Miscellaneous ... | 35 | 0 7 | 29,764 | 8 4 | Forest cash Remittances Local. | - | | 29,710 | 11 6 |
| Forest cash Remittances Local. | ..... | ..... | 60,400 | 0 0 | Remittances to treasury ... | ..... | ..... | 54 | 11 4 |
| Cheques drawn ... | ..... | ..... | 28 | 0 8 | Inter departmental transfer ... | ..... | ..... | 2,115 | 4 9 |
| Inter divisional transfer ... | ..... | ..... | 130 | 1 5 | Exchange of coin ... | ..... | ..... | 51,078 | 10 7 |
| Inter departmental transfer ... | ..... | ..... | 2,293 | 0 10 | Advances recoverable | ..... | ..... | 978 | 6 1 |
| Exchange of coin ... | ..... | ..... | 50,713 | 4 9 | Balance ... | ..... | ..... |  |  |
| Advances recoverable | ..... | ..... |  |  |  |  |  |  |  |
| Total ... | ..... | ..... | 1,43,490 | 6 9 | Total ... | ..... | ..... | 1,43,490 | 6 9 |

ANNUAL FORM NO. 60.

Forest Department, Marwar State. Revenue received and outstanding on account of Revenue for the year 1898-99.

| Range. | Particulars. | Outstanding at commence- ment of the year. | Value of sales and other revenue during the year. | Total. | Account realized during the year. | Balance due to the department at end of year. | REMARKS |
|-------------------|---|--|---|--------|---|---|----------|
| DEPARTMENT Haj | Sewari ... | 541 | 15,761 | 16,302 | 8 1 | 14,623 | 1510 |
| | Desnri ... | 506 | 6,255 | 6,761 | 9 9 | 6,246 | 1 3 |
| | Sojat ... | 169 | 6,282 | 6,451 | 12 3 | 6,347 | 8 3 |
| | Sivana ... | ..... | 1,096 | 1,096 | 3 0 | 1,006 | 8 0 |
| | Parbatsar ... | ..... | 363 | 363 | 7 3 | 303 | ..... |
| | Jodhpur ... | ..... | 396 | 525 | 10 11 | 396 | ..... |
| | Arbiculture and Gardens ... | 129 | 700 | 893 | 0 7 | 691 | 120 10 6 |
| | Fuel and Fodder Reserves and Bern- Baories ... | 192 | 0 0 | 0 0 | 0 0 | 0 0 | 201 12 2 |
| | Total | 1,330 | 30,855 | 32,394 | 3 10 | 29,764 | 8 4 |
| | Forest Conservancy ... | 3 | 4,454 | 4,457 | 15 3 | 4,443 | 15 3 |
| DEPARTMENT Haj | Forest Conservancy ... | ..... | 833 | 833 | 11 9 | ..... | 11 9 |
| | Forest Conservancy ... | ..... | 278 | 278 | 4 6 | 273 | 4 6 |
| | Forest Conservancy ... | ..... | 163 | 163 | 11 6 | 103 | 11 6 |
| | Forest Conservancy ... | ..... | 302 | 302 | 9 6 | 302 | 9 6 |
| | Forest Conservancy ... | ..... | 530 | 530 | 6 6 | 530 | 6 6 |
| | Forest Conservancy ... | ..... | ..... | ..... | ..... | ..... | ..... |
| | Forest Conservancy ... | ..... | ..... | ..... | ..... | ..... | ..... |
| | Forest Conservancy ... | ..... | ..... | ..... | ..... | ..... | ..... |
| | Forest Conservancy ... | ..... | ..... | ..... | ..... | ..... | ..... |
| | Forest Conservancy ... | ..... | ..... | ..... | ..... | ..... | ..... |
| ... | Grand Total | 1,542 | 37,413 | 38,955 | 14 10 | 36,312 | 3 4 |
| | | | | | | 2,643 | 11 6 |

